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(54) **Blind assembly**

(57) A blind assembly is constructed to include a blind formed of a headrail, a bottom rail, a plurality of slats, and two ladder tapes, and a plurality of shades

detachably fastened to the ladder tapes to cover the gaps in between the slats. Each shade has an elongated shade body and a support member inserted into a pocket at one long side of the shade body.

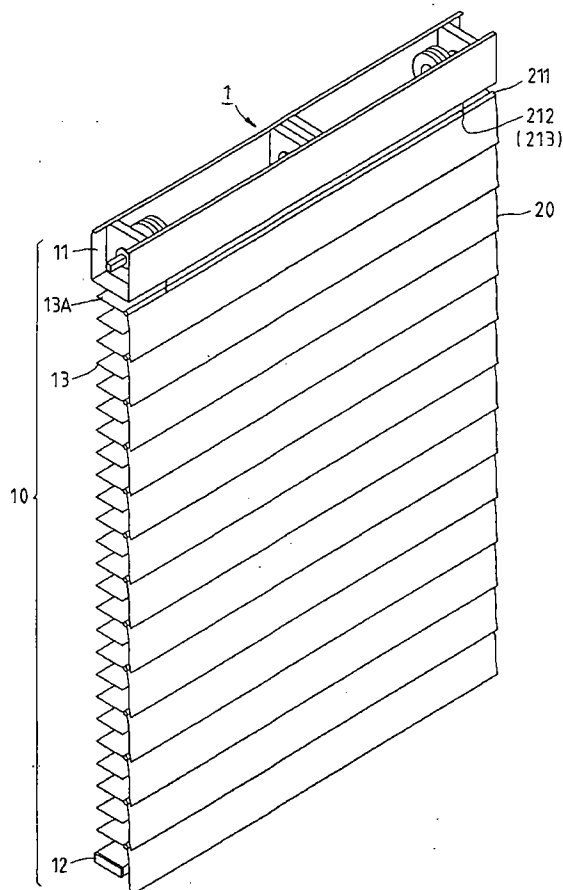


FIG. 2

Description

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] The present invention relates generally to blinds and, more particularly, to a blind assembly, which comprises a plurality of shades attached to the blind slats. The invention relates also to shades for blind assembly.

2. Description of the Related Art

[0002] In order to enhancing light shading effect and to make the whole assembly more attractive, a Venetian blind may be covered with a curtain. Conventional curtains for Venetian blind commonly have a complicated mounting structure and high manufacturing cost. Further, it takes much time and labor to install a curtain in a Venetian blind. When installed, the curtain and the blind body may not be maintained in balance. Further, when receiving the blind, the curtain tends to be jammed in between the slats and wrinkled. When the border area of the curtain curved or wrinkled, the sense of beauty of the curtain is destroyed. In order to eliminate this problem, the inventor of the present invention invented a combination curtain and blind arrangement (Taiwan Utility Model Application No. 91204734). This design is functional. However, it takes much time to detach the curtain from the blind for cleaning. There is also known a blind assembly having detachable curtains. However, this design has no means to support the curtains in shape. Due to the effect of gravity weight, the middle part of each curtain curves downwards when installed.

SUMMARY OF THE INVENTION

[0003] It is the main object of the present invention to provide a blind assembly, which has shades suspended from the slats at one side in a smooth manner.

[0004] It is another object of the present invention to provide a blind assembly, which keeps shades positively secured to the slats.

[0005] It is still another object of the present invention to provide a blind assembly, which is simple and inexpensive to manufacture.

[0006] To achieve these objects of the present invention, the blind assembly comprises a blind and a plurality of shades. The blind comprises a headrail, a bottom rail, a plurality of slats, and two ladder tapes fastened to the headrail and the bottom rail to hold the slats in parallel between the headrail and the bottom rail. The shades are detachably fastened to the ladder tapes to cover the gaps in between the slats. Each shade is comprised of an elongated shade body and a support member. The shade body has a pocket extended along one long side thereof and adapted to accommodate the support mem-

ber, and a plurality of crevices formed in the pocket corresponding to the ladder tapes. The support member is inserted into the pocket, defining with the crevices a respective retaining space, which receives the ladder tapes.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007]

FIG. 1 is a perspective view of an exploded view of a blind assembly according to a first preferred embodiment of the present invention.

FIG. 2 is an elevational assembly view in an enlarged scale of the blind assembly shown in FIG. 1. FIG. 3 is an enlarged view of a part of FIG. 2.

FIG. 4 is a side view in an enlarged scale of a part of FIG. 2.

FIG. 5 is a perspective assembly view of a blind assembly according to a second preferred embodiment of the present invention.

FIG. 6 is an exploded view of a blind assembly according to a third preferred embodiment of the present invention.

FIG. 7 is a perspective assembly view in an enlarged scale of the blind assembly shown in FIG. 6. FIG. 8 is a side view in an enlarged scale of a part of FIG. 7.

FIG. 9 is an exploded view of a blind assembly according to a fourth preferred embodiment of the present invention.

FIG. 10 is a perspective assembly view in an enlarged scale of the blind assembly shown in FIG. 9.

DETAILED DESCRIPTION OF THE INVENTION

[0008] Referring to FIGS. 1 and 2, a blind assembly 1 in accordance with the first preferred embodiment of the present invention is shown comprised of a Venetian blind 10, a number of shades 20.

[0009] Referring to FIGS. 3 and 4 and FIGS. 1 and 2 again, the Venetian blind 10 comprises a headrail 11, a bottom rail 12, a number of slats 13, and two ladder tapes 14. The headrail 11 is fixedly fastened to the top side of a window (not shown). The bottom rail 12 is spaced below the headrail 11. The slats 13 are arranged in parallel between the headrail 11 and the bottom rail 12. The ladder tapes 14 each comprise two vertical ladder tape elements 141 connected in parallel between the headrail 11 and the bottom rail 12, a plurality of first horizontal ladder tape elements 142 respectively connected between the vertical ladder tape elements 141 at different elevations, and a plurality of second horizontal ladder tape elements 143 respectively connected between the vertical ladder tape elements 141 at different elevations corresponding to the first horizontal ladder tape elements 142. Each first horizontal ladder tape element 142 forms with one second horizontal ladder tape

elements **143** a loop for holding one slat **13** or the bottom rail **12**, i.e., the first horizontal ladder tape elements **142** and the second horizontal ladder tape elements **143** join the slats **13** between the headrail **11** and the bottom rail **12**. When pulling the ladder tapes **14**, the slats **13** are tilted.

[0010] The number of the shades **20** is one half of the number of the slats **13**. Each shade **20** is comprised of a rectangular shade body **21** made from semi-transparent material, and an elongated rigid support member **22**. The length of the shade body **21** is equal to the length of the slats **13**. The width of the shade body **21** is twice the pitch of the slats **13**. The shade body **21** has a pocket **211** extended along one long side, and two crevices **212** in the pocket **211** corresponding to the two ladder tapes **14**. The support member **22** is inserted into the pocket **211** of the shade body **21**. Each crevice **212** defines with the support member **22** a respective retaining space **213** (see FIGS. 3 and 4). The length of the support member **22** is equal to the length of the slats **13**. During installation, the pockets **211** of the shade bodies **21** of the shades **20** are respectively attached to the first horizontal ladder tape elements **142** at the odd number slats **13** (1st, 3rd, 5th, 7th, etc.), and then the respective support members **22** are respectively inserted into the pockets **211** of the shade bodies **21** of the shades **20**, keeping one vertical ladder tape element **141** of each ladder tape **14** respectively secured to the retaining spaces **213**.

[0011] According to the aforesaid first embodiment of the present invention, the blind assembly has the following advantages:

1. The shades cover the gaps in between the slats, enhancing the light shading effect of the blind. Because the shades are not directly fastened to the slats, the shades will not be wrinkled when lifting the slats to receive the blind assembly.
2. The rigid support members hold the respective shade bodies in shape, preventing the shade bodies from curving downwards.
3. The installation of the shades is easy. When wishing to wash the shades, the user can detach the shades from the ladder tapes by removing the rod members from the shade bodies.

[0012] FIG. 5 shows a blind assembly constructed according to the second preferred embodiment of the present invention. According to this embodiment, a valance **31** is fastened to the front side of the headrail **11** to cover the gap between the headrail **11** and the first slat **13A**.

[0013] FIGS. 6~8 show a blind assembly constructed according to the third preferred embodiment of the present invention. This embodiment is similar to the aforesaid first embodiment with the exception of the structure of the shades **20**. According to this embodiment, each shade **20** further comprises a weight **23**. The weight **23** is rod-like member of heavy material. The

length of the weight **23** is approximately equal to the lengths of the slats **13**. The shade body **21** has a tubular receiving portion **214** extended along the other long side (opposite to the pocket **211**) and adapted to receive the weight **23**. Further, the number of the shades **20** is equal to the number of the slats **13**, and the length of the short sides of the shades **20** is approximately equal to the pitch of the slats **13**. During installation, the pockets **211** of the shade bodies **21** of the shades **20** are respectively attached to the first horizontal ladder tape elements **142** at the slats **13**, and then the respective support members **22** are respectively inserted into the pockets **211** of the shade bodies **21** of the shades **20**, keeping one vertical ladder tape element **141** of each ladder tape **14** respectively secured to the retaining spaces **213**. Because the shade body **21** of each shade **20** is equipped with a respective weight **23**, the shade bodies **21** of the shades **20** do not fly in the air. Further, the weights **23** give a downward traction effort to the respective shade bodies **21**, preventing the shade bodies **21** from curving due to the radiation of sunlight.

[0014] FIGS. 9 and 10 show a blind assembly constructed according to the fourth preferred embodiment of the present invention. This embodiment is similar to the aforesaid third embodiment with the exception of the structure of the shades **20**. According to this embodiment, each shade **20** further comprises two coupling loops **215** extended from the two distal ends of the periphery of the pocket **211** for coupling to one slat **13**. By means of sleeving the coupling loops **215** onto the slats **13**, the shades **20** are closely secured to the slats **13** in a good order.

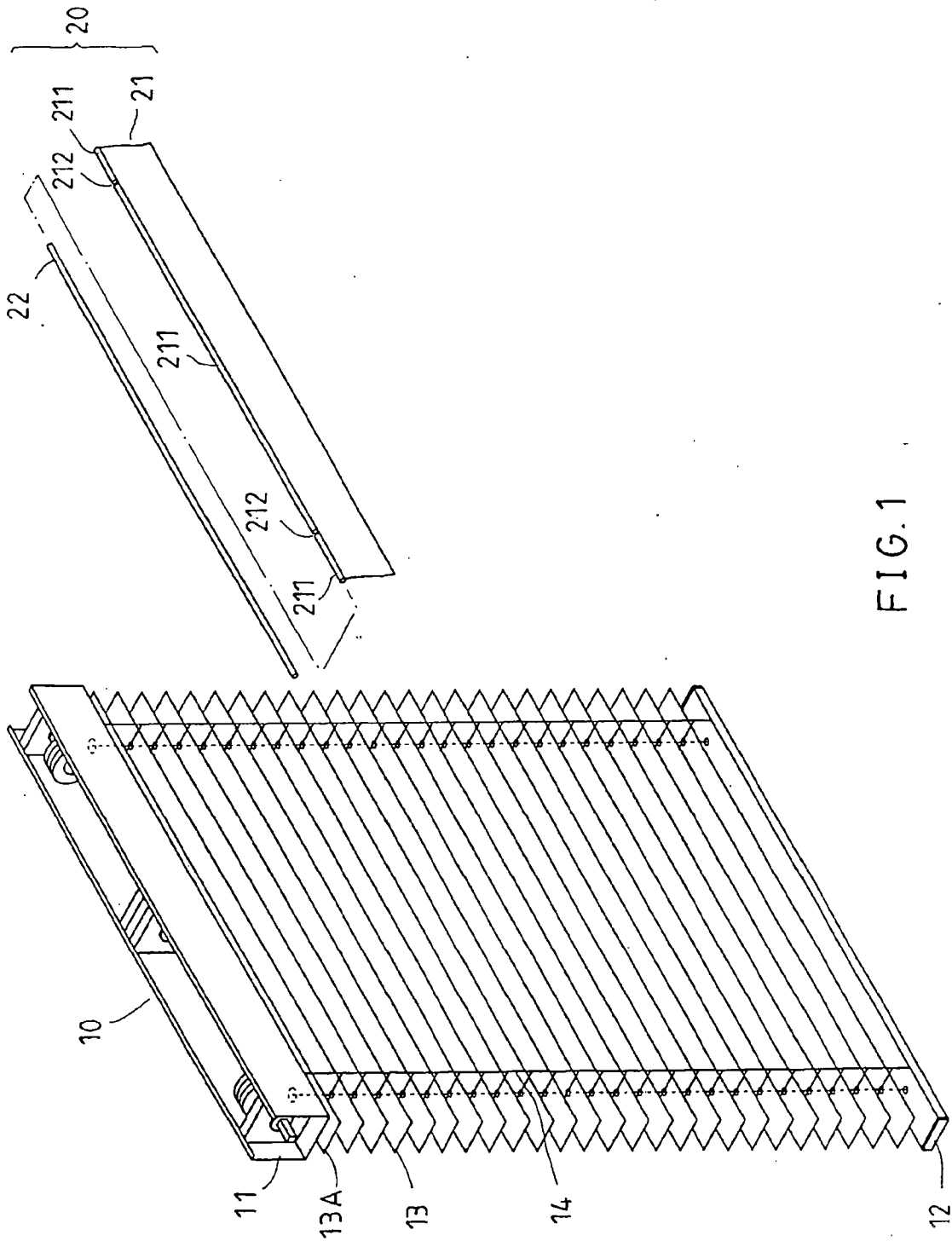
Claims

1. A blind assembly comprising:

a blind having a headrail, a bottom rail, a plurality of slats, and two ladder tapes fastened to said headrail and said bottom rail to hold said slats in parallel between said headrail and said bottom rail; and

a plurality of shades fastened to said ladder tapes and adapted to cover gaps in between said slats, said shades each having an elongated shade body and a support member, said shade body having a pocket extended along one long side thereof and adapted to accommodate said support member, and a plurality of crevices formed in said pocket corresponding to said ladder tapes, said support member having a length substantially equal to said shade body, said support member being inserted into said pocket and defining with said crevices a respective retaining space, which receives said ladder tapes.

2. The blind assembly as claimed in claim 1, wherein said shades each further comprise a rod-like weight, said rod-like weight having a length substantially equal to said support member; the shade body of each of said shades has a tubular receiving portion elongated along one long side thereof opposite to the respective pocket and adapted to accommodate said rod-like weight. 5
3. The blind assembly as claimed in claim 1, wherein said shade body further comprises two coupling loops respectively extended from two distal ends of the periphery of the pocket thereof and respectively coupled to one of said slats. 10 15
4. The blind assembly as claimed in claim 1, wherein said ladder tapes each comprise two vertical ladder tape elements connected in parallel between said headrail and said bottom rail, and a plurality of first horizontal ladder tape elements respectively connected between said vertical ladder tape elements at different elevations, and a plurality of second horizontal ladder tape elements respectively connected between said vertical ladder tape elements at different elevations corresponding to said first horizontal ladder tape elements, said first horizontal ladder tape elements each forming with said second horizontal ladder tape elements a respective loop for holding said slats. 20 25 30
5. A shade adapted to be installed on a blind, comprising an elongated shade body and a support member, said shade body having a pocket extended along one long side thereof and adapted to accommodate said support member, and a plurality of crevices formed in said pocket, said support member being inserted into said pocket and defining with said crevices a respective retaining space. 35
6. The shade as claimed in claim 5 further comprising an elongated weight; said shade body having a tubular receiving portion extended along a second long side thereof opposite to said pocket and adapted to accommodate said elongated weight. 40 45
7. The shade as claimed in claim 5, wherein said shade body comprises two coupling loops respectively extended from the periphery of said pocket near two distal ends of said pocket. 50



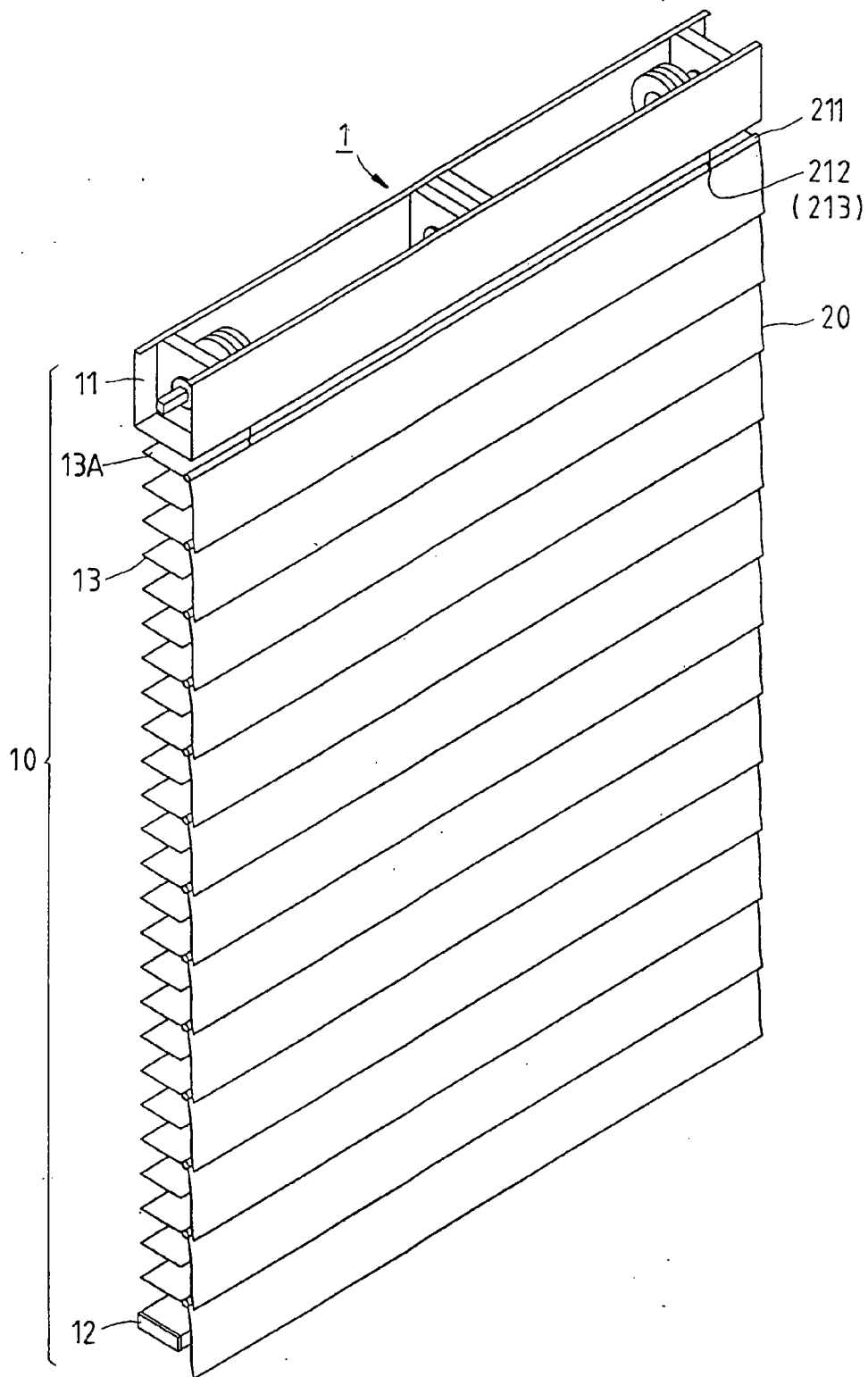


FIG. 2

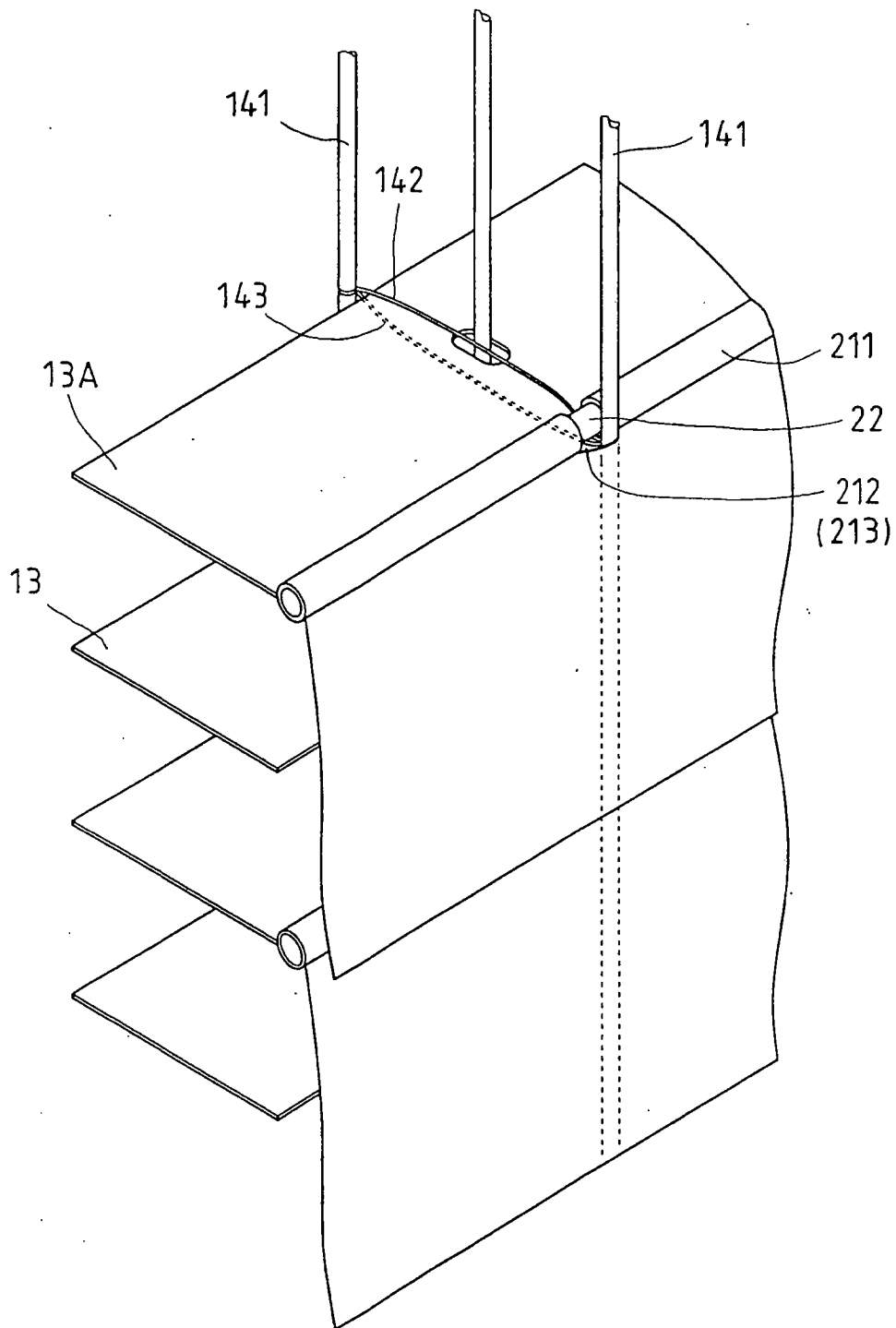


FIG. 3

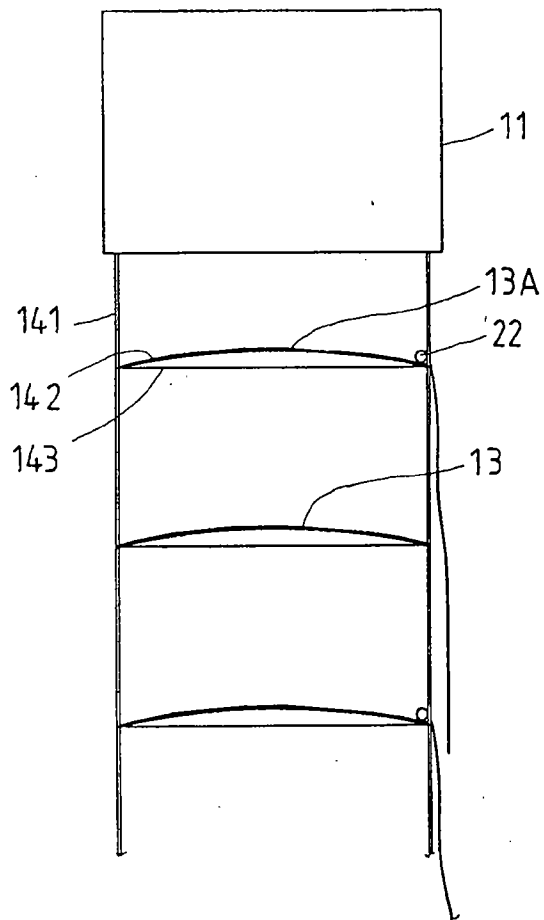


FIG. 4

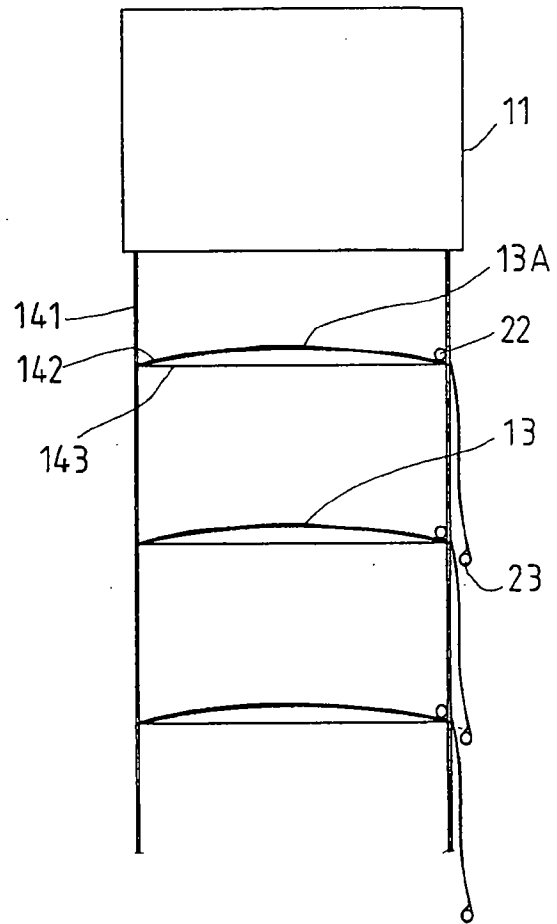


FIG. 8

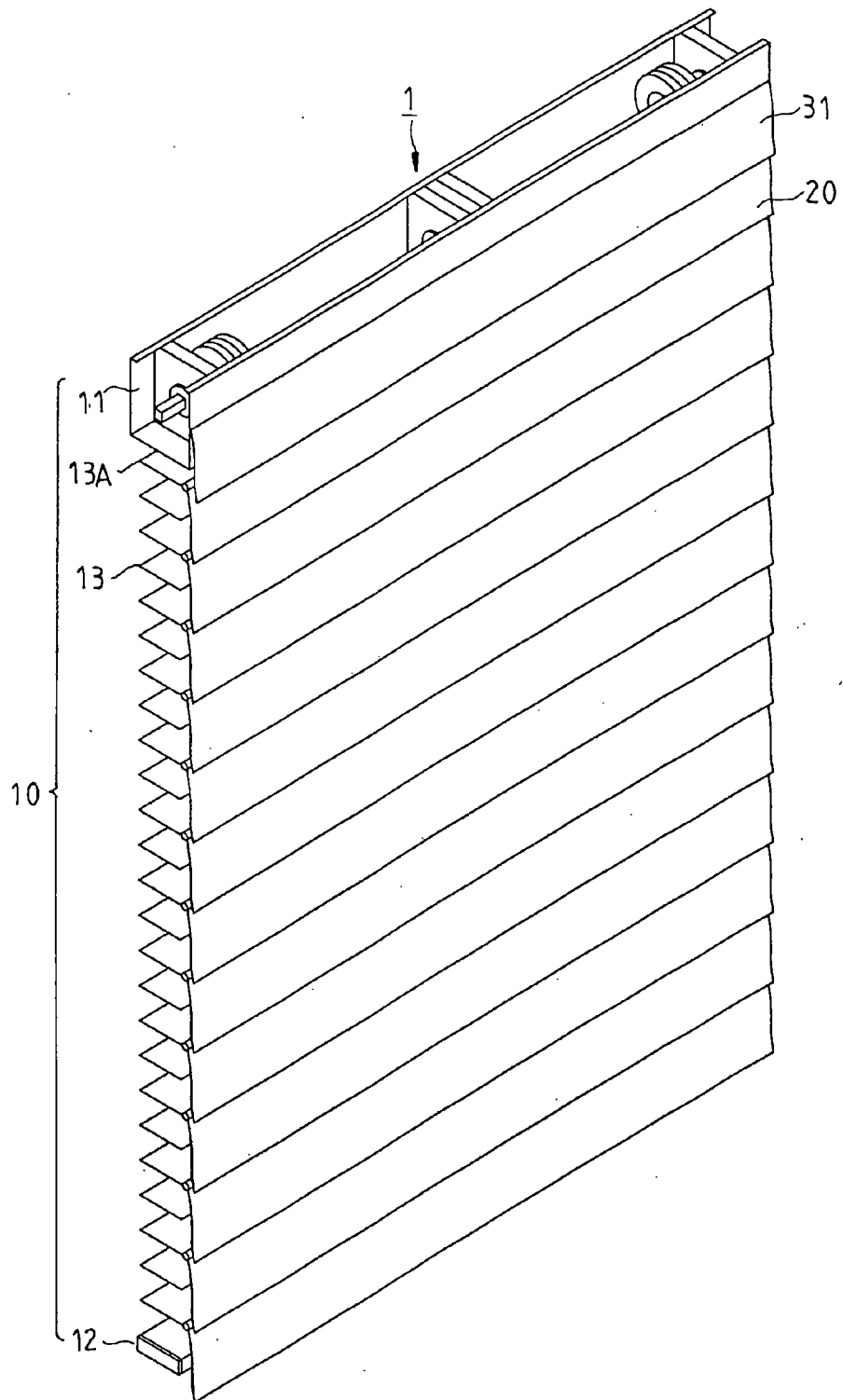
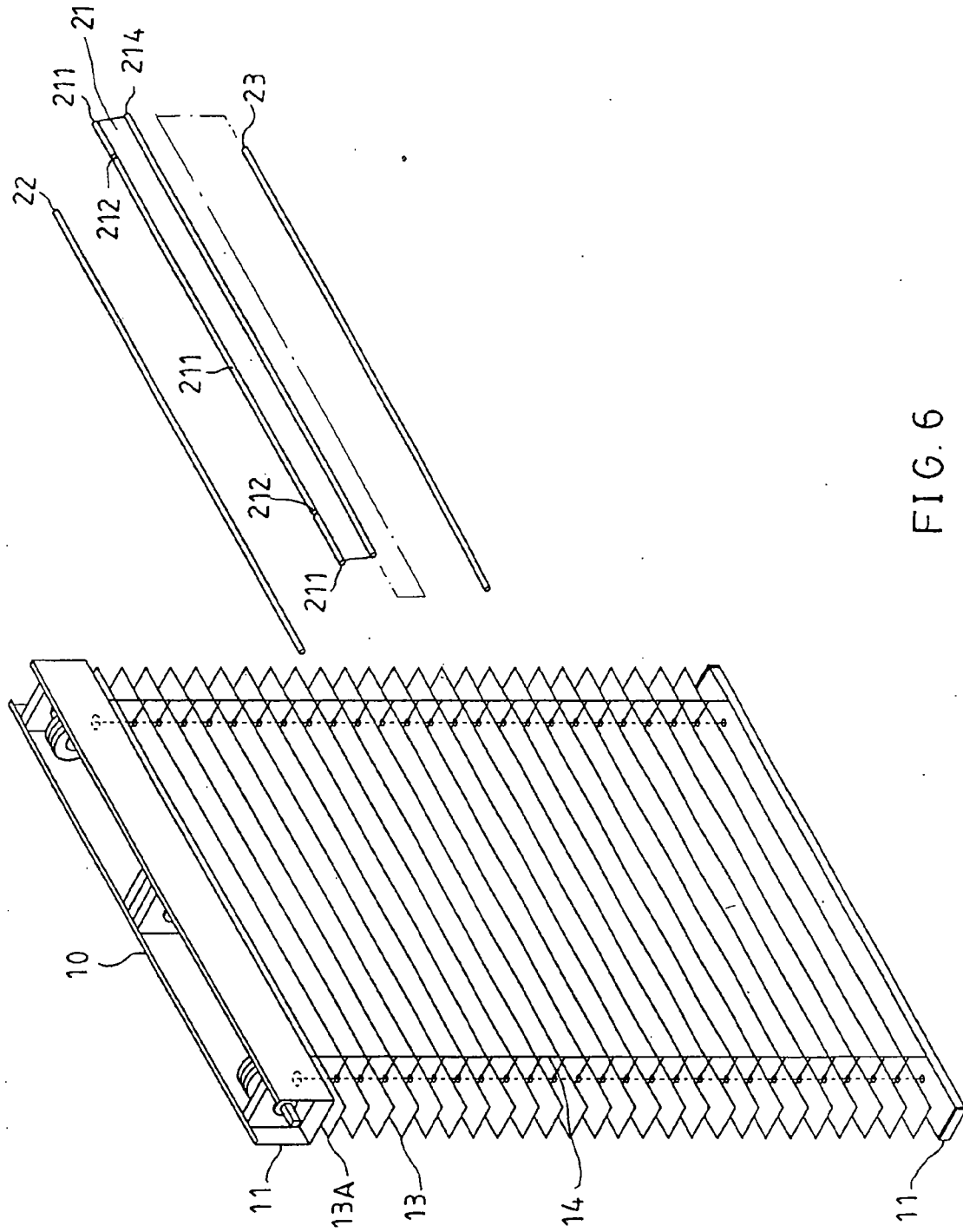


FIG. 5



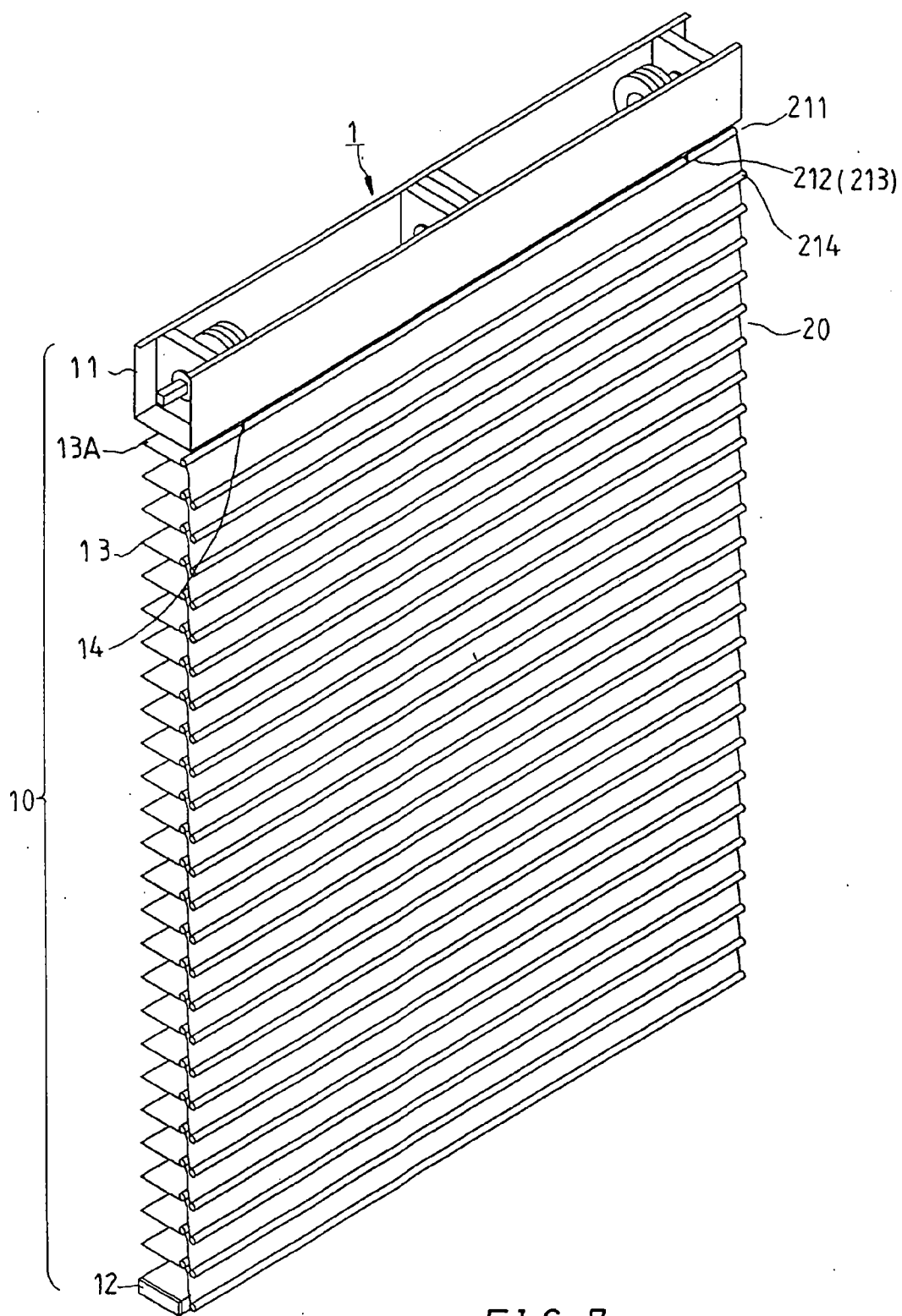
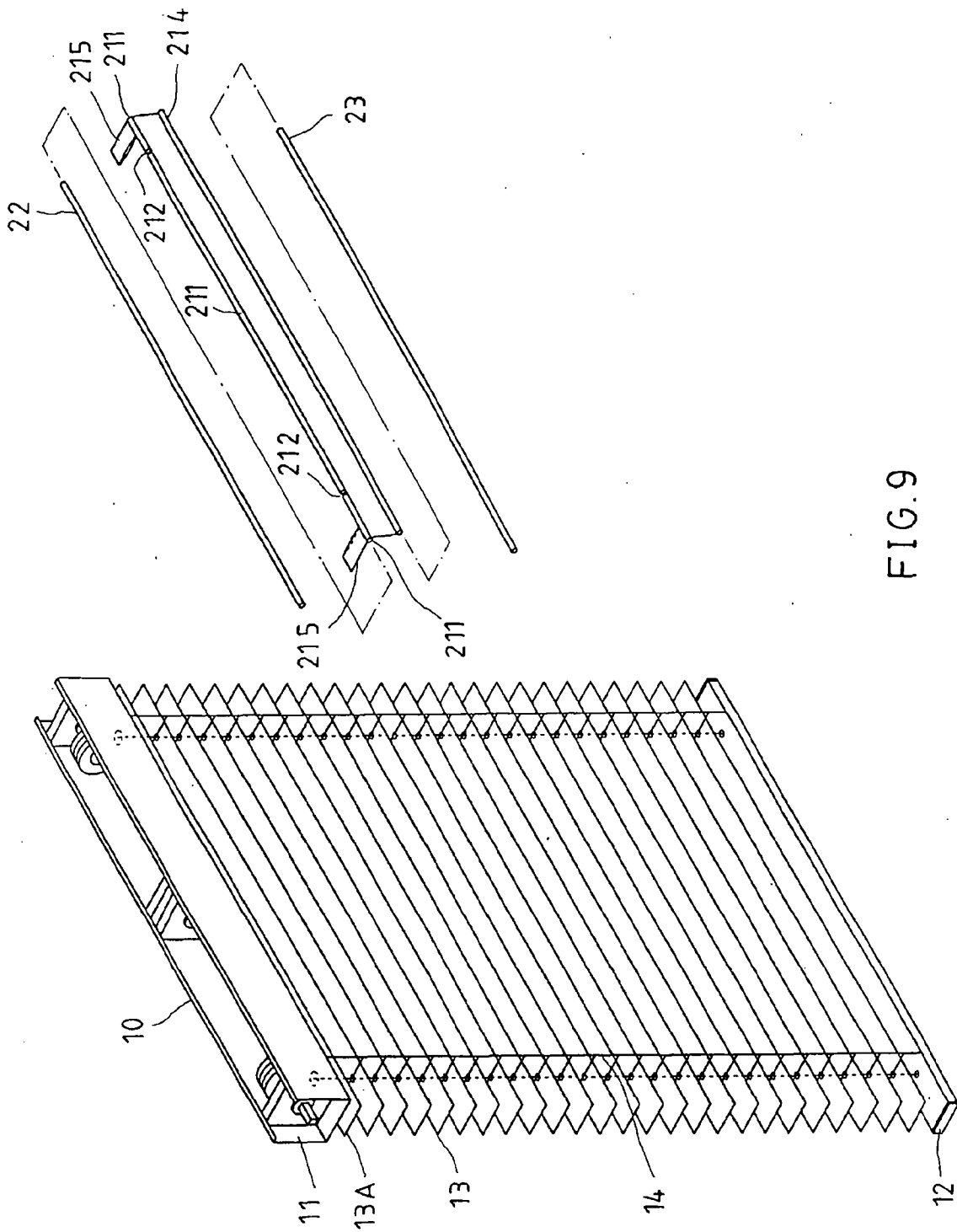


FIG. 7



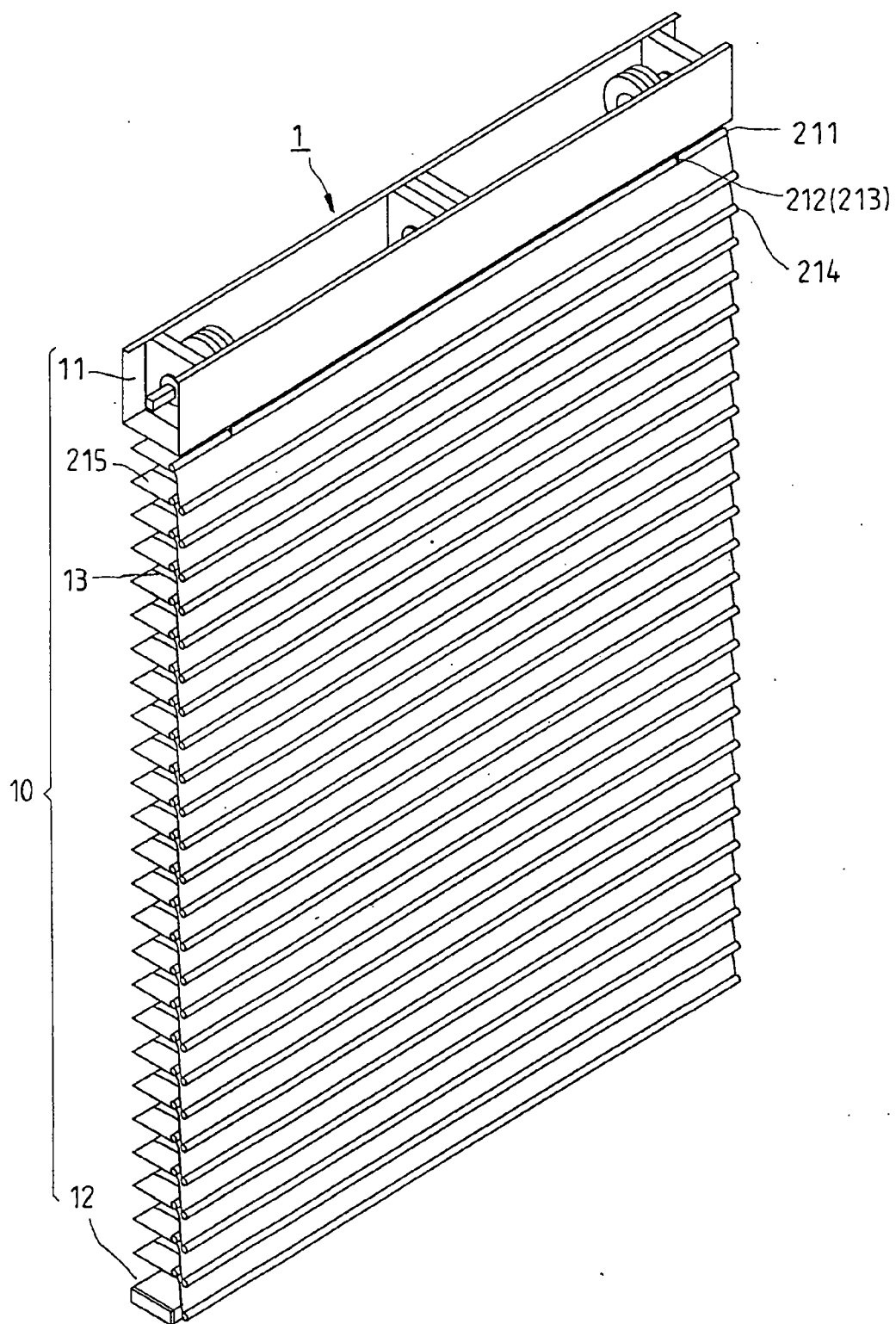


FIG. 10